

Abstract

An apparatus and method for thermally compensating a voltage signal for a circuit protection device. The circuit protection device is coupled to a powered circuit and having current flowing through it. A bus carries the power therethrough. A sense resistor is electrically coupled to a bus for sensing the current flowing through the bus. A temperature sensitive circuit is coupled to the sense resistor for compensating ambient temperatures. The invention is useful for providing an accurate sense resistor that supplies a temperature independent current in a power line and the related voltage output of the sense resistor at varying ambient temperatures.